

Summary

The invention relates to a switching element for modifying the electric resistance with at least one high temperature superconductor (1) and means (3) for irradiating electromagnetic high frequency onto the at least one high temperature superconductor (1). The invention further relates to a method for switching a high temperature superconductor (1) comprising the steps of providing a high temperature superconductor (1) in the superconducting state and irradiating an electromagnetic high frequency until the high temperature superconductor (1) changes over into a normally conducting state.

Fig. 1